



**NEW ENGLAND  
COMMON ASSESSMENT PROGRAM**

**Student Work Samples  
2012**

**Grade 3**



# Mathematics



- 11 A postman delivered 81 letters and 15 packages. How many more letters than packages did the postman deliver?

66



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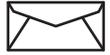
$$\begin{array}{r} 81 \\ - 15 \\ \hline 66 \end{array}$$



- 11 A postman delivered 81 letters and 15 packages. How many more letters than packages did the postman deliver?

$$\begin{array}{r} - 81 \\ 15 \\ \hline 74 \end{array}$$

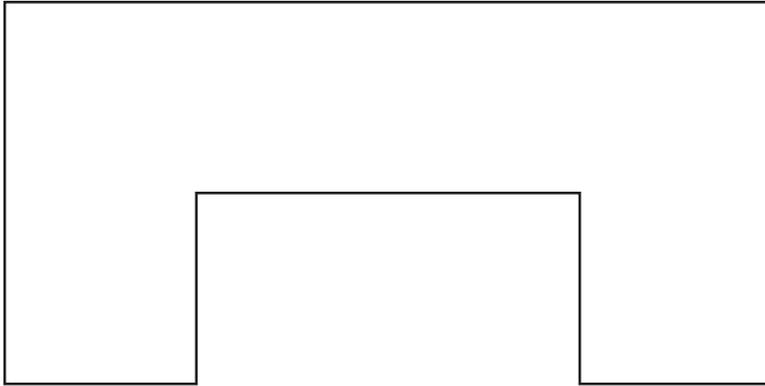
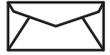
12 Use the square-inch tiles from your envelope to find the area of the shape below.



What is the area of this shape? Write the area on the line below.

6 square inches

12 Use the square-inch tiles from your envelope to find the area of the shape below.



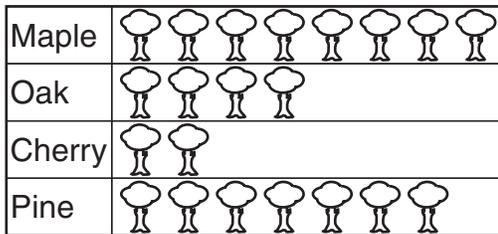
What is the area of this shape? Write the area on the line below.

7 square inches



13 Look at this pictograph.

### Trees in Park



How many fewer cherry trees than maple trees are in the park?

6 fewer  $-\frac{8}{2}$   
6



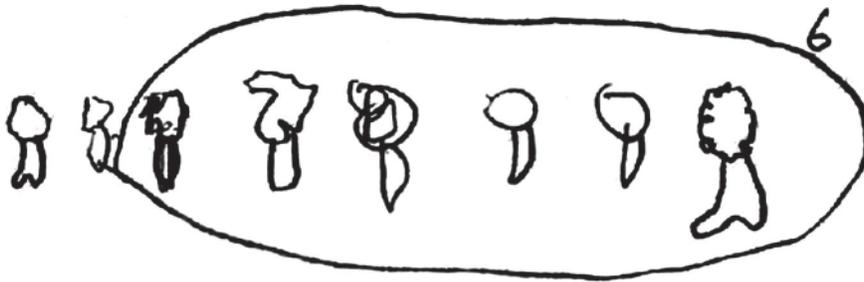
13 Look at this pictograph.

### Trees in Park

Maple	       
Oak	   
Cherry	 
Pine	      

**Key**  
 represents 1 tree

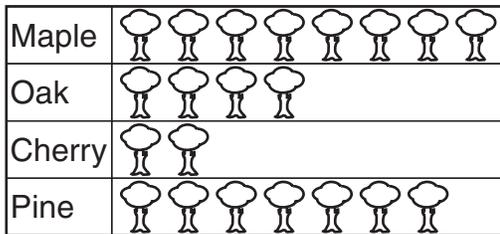
How many fewer cherry trees than maple trees are in the park?





13 Look at this pictograph.

### Trees in Park



How many fewer cherry trees than maple trees are in the park?

8 M  
2 C

- 14 Look at this candy bar. Haley eats 2 pieces of this candy bar and Karl eats one-fourth of this candy bar.



What fraction of the candy bar does Haley eat?

$$\frac{2}{4}$$

How many pieces does Karl eat?

*He eats 1 piece.*

- 14 Look at this candy bar. Haley eats 2 pieces of this candy bar and Karl eats one-fourth of this candy bar.



What fraction of the candy bar does Haley eat?

$$\frac{1}{4}$$

How many pieces does Karl eat?

1 piece

- 14 Look at this candy bar. Haley eats 2 pieces of this candy bar and Karl eats one-fourth of this candy bar.



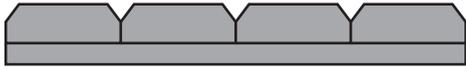
What fraction of the candy bar does Haley eat?

$$\frac{4}{2}$$

How many pieces does Karl eat?

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candy bar.

- 14 Look at this candy bar. Haley eats 2 pieces of this candy bar and Karl eats one-fourth of this candy bar.



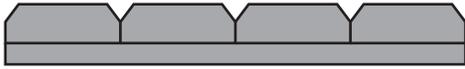
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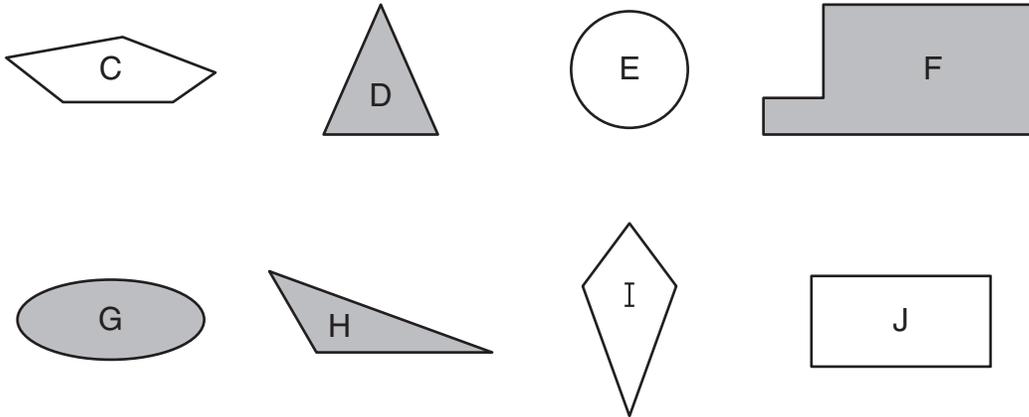
What fraction of the candy bar does Haley eat?

*2 peo's*

How many pieces does Karl eat?

*one fourth*

15 Ryan is playing a game using these shapes.



Ryan has these rules about a mystery shape:

- Rule 1: The shape is shaded.
- Rule 2: The shape has angles.
- Rule 3: Each side of the shape is a different length.

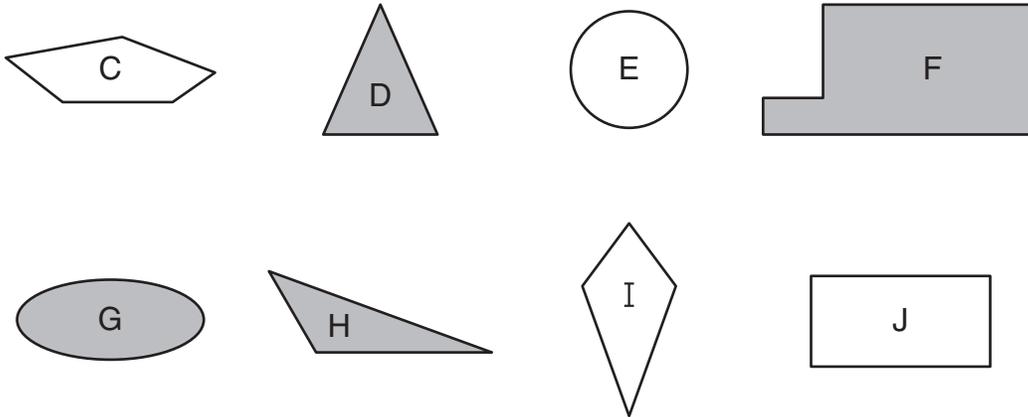
Write the letter of **every** shape that fits all three rules.

*h, f*

Draw a four-sided shape that fits **all** three rules.



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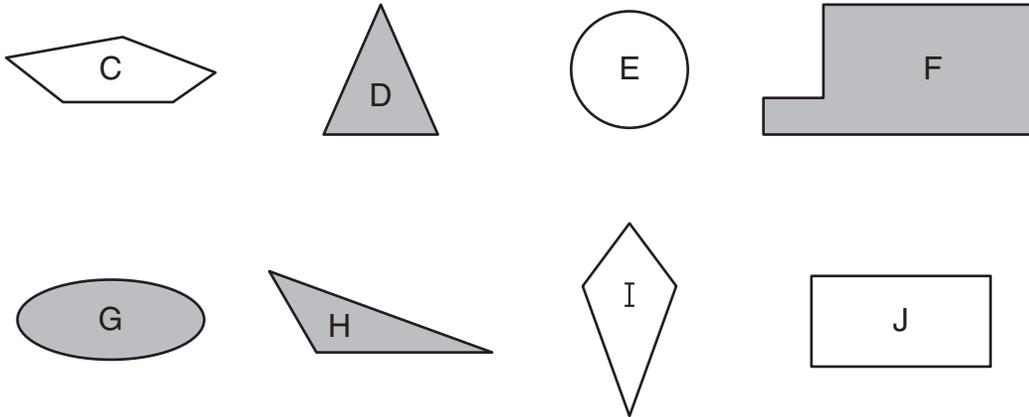
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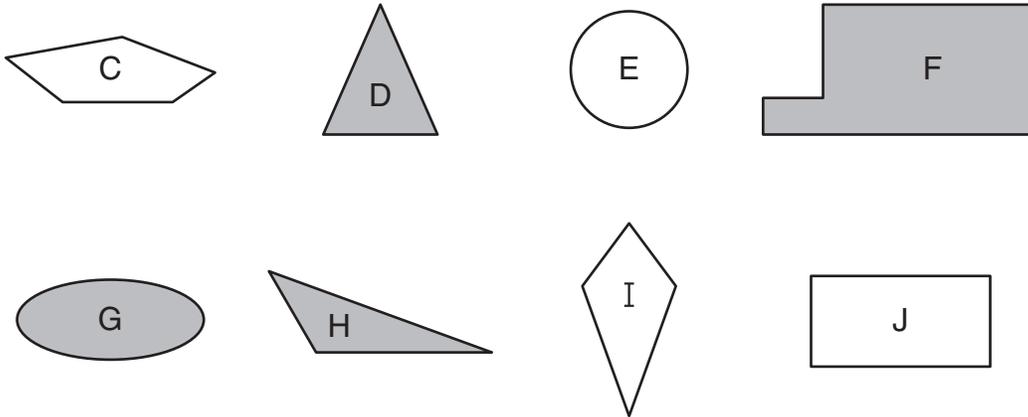
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H

Draw a four-sided shape that fits **all** three rules.



16 Look at these number sentences.

$$\triangle + 10 = 18$$

$$\triangle + \bigcirc = 12$$

The  $\triangle$  has the same value in both of these number sentences. The  $\bigcirc$  has a different value than the  $\triangle$ .

What is the value of  $\triangle$ ?

8

What is the value of  $\bigcirc$ ?

4

16 Look at these number sentences.

$$\triangle + 10 = 18$$

$$\triangle + \bigcirc = 12$$

The  $\triangle$  has the same value in both of these number sentences. The  $\bigcirc$  has a different value than the  $\triangle$ .

What is the value of  $\triangle$ ?  $\underline{8} + 10 = 18$  Answer: 8

What is the value of  $\bigcirc$ ?  $8 + \underline{4} = 12$  Answer: 4

16 Look at these number sentences.

$$\triangle + 10 = 18$$

$$\triangle + \bigcirc = 12$$

The  $\triangle$  has the same value in both of these number sentences. The  $\bigcirc$  has a different value than the  $\triangle$ .

What is the value of  $\triangle$ ? 7

What is the value of  $\bigcirc$ ? 5

16 Look at these number sentences.

$$\triangle + 10 = 18$$

$$\triangle + \bigcirc = 12$$

The  $\triangle$  has the same value in both of these number sentences. The  $\bigcirc$  has a different value than the  $\triangle$ .

What is the value of  $\triangle$ ?

18

What is the value of  $\bigcirc$ ?

12